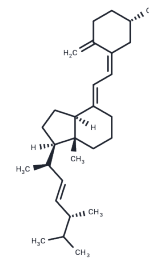


## Vitamin D2

### Chemical Properties

CAS No. :	50-14-6
Formula:	C <sub>28</sub> H <sub>44</sub> O
Molecular Weight:	396.65
Storage:	Keep away from moisture, Keep away from direct sunlight Powder: -20°C for 3 years <small>Actual storage temperature shall be subject to the COA.</small>



### Biological Description

Description	Ergocalciferol (Vitamin D2 (Calciferol)) is a derivative of ergosterol formed by ultraviolet rays breaking of the C9-C10 bond with a strong inhibitory effect against bladder tumor promotion by sodium saccharin, and it induces cell differentiation in leukemia cells. Vitamin D2 is an inhibitor of DNA Polymerase.
Targets(IC50)	Endogenous Metabolite, Vitamin, DNA/RNA Synthesis

### Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 255 mg/mL (642.88 mM), Sonication is recommended. Ethanol: 74 mg/mL (186.56 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.04 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	2.5211 mL	12.6056 mL	25.2111 mL
5 mM	0.5042 mL	2.5211 mL	5.0422 mL
10 mM	0.2521 mL	1.2606 mL	2.5211 mL
50 mM	0.0504 mL	0.2521 mL	0.5042 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

#### Reference

Mizushina Y, et al. J Pharmacol Sci. 2003 Jul;92(3):283-90.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481